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PTO/SB/05 (08-03) Approved for use through 07/31/2006. OMB 0651-0032
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## UTILITY PATENT APPLICATION **TRANSMITTAL**

N1085-00141 Attorney Docket No. Yi-Lung Cheng First Inventor METHOD AND SYSTEM FOR Title FABRICATING A COPPER

(Only for ne	w nonprovisional appli	cations under 37 C	FR 1.53(b))	Express N	fail Label No.	EV 306	256515	US	丿			
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.					ADDRESS TO:  Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450							
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)  Applicant claims small entity status. See 37 CFR 1.27.  Specification [Total Pages 17] (preferred arrangement set forth below)  - Descriptive title of the invention  - Cross Reference to Related Applications  - Statement Regarding Fed sponsored R & D  - Reference to sequence listing, a table, or a computer program listing appendix  - Background of the Invention  - Brief Summary of the Invention  - Brief Description of the Drawings (if filed)  - Detailed Description  - Claim(s)  - Abstract of the Disclosure  4. Drawing(s) (35 U.S.C. 113) [Total Sheets 4]  5. Oath or Declaration [Total Sheets 4]  5. Oath or Declaration (original or copy)  b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)					Alexandria VA 22313-1450  7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)							
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76				16	(b)(2)(B)(i). Applicant must attach form PTO/SB/35							
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation  Divisional  Continuation-in-part (CIP)  of prior application No.:  Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.												
The Incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS												
Customer Number: 08933				OR Correspondence address below								
Name V	Name William H. Murray											
Address	One Liberty Place											
	rilladcipilla			State PA			Zip Code 19103					
Country U.S.A. Tel					elephone 215-979-1264 Fax 215-979-102							
Name (Print/Type)   William H. Murray, Esquire   Registration No. (Attorney/Agent)   27,218												
Signature Date 11/19/03												

This collection of information is required by 37 CFR 1.53(b). The liftormation is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)

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FEE TRANSMITTAL					Complete if Known							
	┗╽	Application Number Not Kr				Not Kno	wn Yet					
for FY 2004					Filing Date 11/19/				003			
Effective 10/01/2003. Patent fees are subject to annual revision.					First Named Inventor Yi-Lur				Cheng			
Applicant claims small entity status. See 37 CFR 1.27					Examiner Name Not I				wn Yet			
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SUBMITTED BY (Complete (if applicable))												
Name (Print/Type)		Registra:		27,	218		•	215-979-1264				
Signature	<u> </u>	(Attorney/Agent)					Date	11/19/2003				

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ATTORNEY DOCKET NO.: N1085-00141 [TSMC 2002-1189]

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Yi-Lung Cheng et al.

Serial No.: Not Yet Assigned Examiner: Not Yet Assigned

Filed: 11/19/2003 Group Art Unit: Not Yet Assigned

For: METHOD AND SYSTEM FOR FABRICATING A COPPER BARRIER LAYER WITH LOW DIELECTRIC CONSTANT AND LEAKAGE CURRENT

## **CERTIFICATION UNDER 37 C.F.R. 1.10**

I hereby certify that this document (along with the enclosed Patent Application Transmittal and any documents referred to therein) is being deposited with the United States Postal Service on the date shown below with sufficient postage as "Express Mail Post Office to Addressee" Mailing Label Number EV 306256515 US to the following:

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated: 11/19/2003

Chris Lambriodes